

Preliminary Amendment  
Application No.: filed concurrently  
June 14, 2005

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IN THE CLAIMS

Please substitute the following claims for the pending claims with the same numbers respectively:

Claim 1 (Original): A resistive material, comprising:  
metallic powder containing copper, manganese, and aluminum;  
glass powder and/or copper oxide powder; and  
a vehicle.

Claim 2 (Original): The resistive material according to claim 1, wherein said metallic powder comprises 80 to 85 weight percent copper, 8 to 16 weight percent manganese, and 2 to 7 weight percent aluminum.

Claim 3 (Currently amended): The resistive material according to ~~either claim 1 or~~ claim 2, wherein a maximum of 10 parts by weight of said glass powder and/or said copper oxide powder is included in the resistive material.

Claim 4 (Currently amended): The resistive material according to ~~any one of claims 1 through~~ claim 3, wherein 10 to

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15 parts by weight of said vehicle is included in the resistive material.

Claim 5 (Currently amended): The resistive material according to ~~any one of claims 1 through~~ claim 4, wherein said metallic powder is made by mixing copper powder, manganese powder, and aluminum powder.

Claim 6 (Currently amended): The resistive material according to ~~any one of claims 1 through~~ claim 4, wherein said metallic powder is made of a copper-manganese-aluminum alloy powder.

Claim 7 (Currently amended): The resistive material according to ~~any one of claims 1 through~~ claim 4, wherein said metallic powder is made by mixing copper-manganese alloy powder and aluminum powder.

Claim 8 (Currently amended): The resistive material according to ~~any one of claims 1 through~~ claim 4, wherein said metallic powder is made by mixing copper-aluminum alloy powder and manganese powder.

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Claim 9 (Currently amended): The resistive material according to ~~any one of claims 1 through~~ claim 4, wherein said metallic powder is made by mixing manganese-aluminum alloy powder and copper powder.

Claim 10 (Original): A resistive element, including copper, manganese, and aluminum.

Claim 11 (Original): The resistive element according to claim 10, wherein said resistive element comprises 80 to 85 weight percent copper, 8 to 16 weight percent manganese, and 2 to 7 weight percent aluminum.

Claim 12 (Original): A resistor, comprising:  
an insulating substrate;  
a resistive element containing copper, manganese, and aluminum formed on said insulating substrate; and  
a pair of electrodes connected to said resistive element.

Claim 13 (Original): The resistor according to claim 12, wherein a conductive component contained in said resistive element comprises 80 to 85 weight percent copper, 8 to 16 weight percent manganese, and 2 to 7 weight percent aluminum.

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Claim 14 (Currently amended): The resistor according to ~~either claim 12 or claim 13~~, wherein copper is used for said electrodes.

Claim 15 (Currently amended): The resistor according to ~~any one of claims 12 to 14~~ claim 13, wherein temperature coefficient of resistance is between  $-100 \times 10^{-6}/K$  and  $100 \times 10^{-6}/K$ .

Claim 16 (Currently amended): The resistor according to ~~any one of claims 12 to 14~~ claim 13, wherein thermo-electromotive force is between  $-5 \mu V/K$  and  $5 \mu V/K$ .

Claim 17 (Original): A resistor manufacturing method, comprising the steps of:

printing a resistive material containing copper, manganese, and aluminum onto an insulating substrate; and

sintering said resistive material in a nitrogen atmosphere, thereby providing a resistive element.

Claim 18 (Original): The resistor manufacturing method according to claim 17, further comprising the steps of:

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printing a conductive material containing copper as a main  
component onto said insulating substrate; and

sintering said conductive material in a nitrogen atmosphere,  
thereby providing electrodes.